



Europass Curriculum Vitae

Personal information

Surname / First name **Enășcuță Cristina Emanuela**
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E-mail cristina.enascuta@gmail.com
Nationality Romanian
Date of birth 23 September 1979
Gender Female



Desired employment / Scientific Researcher

Occupational field

Work experience

Dates 2008-present

Occupation or position held Scientific Researcher 3th degree; Bioresource Department
Main activities and responsibilities Research applied to organic synthesis processes and chemical engineering; Team member of research project and scientific infrastructure project:

1. "Biofertilizanti foliari pe baza de structuri active, inteligente, pentru tratarea culturilor de cereale" – 2016-2018
2. "Integrated green technology system for producing advanced biofuels" - 2014-2016
3. "Interdisciplinary research on the use of elastic type products based on collage to treat rapeseed crops to increase productivity, and reduce crop losses" - 2014-2016
4. "Integrated System For Producing Synthetic Aviation Fuel From Algal Biomass" - 2012-2016
5. "Interdisciplinary research on seed treatment with collagen hydrolysate for quality indicators increasing, pesticides reduction and sustainable development of agricultural production" - 2012-2016
6. "New possibilities for integrating sustainable biodiesel production. Recovery of glycerol esters and omega" – 2010-2014
7. "Biodegradable coolant and lubricating fluid with multiple function" - 2008-2011

Name and address of employer Research and Development Institute for Chemistry and Petrochemistry ICECHIM, 202 Splaiul Independentei street, 060021 Bucharest, sect.6

Type of business or sector Research & Development (in engineering sciences)

Dates 2004-2008

Occupation or position held Research Assistant; Bioresource Department
Main activities and responsibilities Research applied to organic synthesis processes and chemical engineering; Team member of research project and scientific infrastructure project:

1. "Technologies for green chemistry products, from fat matters" - 2007-2010
2. "New microorganisms capable of enzymatic synthesis of active therapeutic biopolymers, using glycerin (by-product of biodiesel obtaining)" - 2007-2010
3. "Complex exploitation of some renewable natural resources to obtain biofuels, glycerine and ecological solvents" - 2005-2008
4. "Complex technological solution for preparation and utilization of N,N,N',N'-tetraacetylene-diamine (TAED) used as surfactant additive and modern, ecological and biodegradable disinfectants, with broad scale application" – 2006
5. "Technologies for obtaining fatty acid salts, in solvents" – 2004-2006
6. "Exploitation of renewable natural resources and chemical by-products through modern methods: extractive technologies, biotechnologies and ecological technologies"- 2004-2006

Name and address of employer Research and Development Institute for Chemistry and Petrochemistry ICECHIM, 202 Splaiul Independentei street, 060021 Bucharest, sect.6

Type of business or sector Research & Development (in engineering sciences)

Education and training

Dates **2011-present**

Title of qualification awarded PhD. Student, Chemical Engineering

Principal subjects/occupational skills covered The research theme: "Separation of omega fatty acids esters by molecular distillation"

Name and type of organization providing education and training University Politehnica of Bucharest, Faculty of Applied Chemistry and Materials Science

Dates **2004-2005**

Title of qualification awarded Master in Pharmaceutical and Cosmetic Products

Principal subjects/occupational skills covered Designing and performing laboratory experiments, synthesis optimization, scientific data interpretation

Name and type of organization providing education and training University Politehnica of Bucharest, Faculty of Applied Chemistry and Materials Science

Dates **1999-2004**

Title of qualification awarded Chemical Engineer

Principal subjects/occupational skills covered Department – Organic chemistry

Name and type of organization providing education and training University Politehnica of Bucharest, Faculty of Applied Chemistry and Materials Science

Personal skills and competences

Mother tongue(s) **Romanian**

Other language(s)

Self-assessment
European level ()*

English

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B2	Independent user	C1	Proficient User	B1	Independent user	B1	Independent user	B1	Independent user

(*) *Common European Framework of Reference for Languages*

Social skills and competences Capable to work as part of a team. Good communication skills gained working with national and overseas scientists.

Organizational skills and competences Experience in complex project teams, multi-institutional and multi-cultural. Experience on both research & development project and scientific infrastructure building project (involving public procurement of equipment and services)

Technical skills and competences	Experience in synthesis, separation and characterization of organic products based on fatty acid alkyl esters. Experience is using Microsoft Office (Word, Excel, PowerPoint), specialised software (Bio-Rad, Adobe Reader, Simulis, Mathcad) and process simulators programs such as Aspen HYSYS.
Annexes	A.5.2. List of selected published scientific papers and patents

A.5.2. List of published scientific papers and patents

1. Scientific papers

1. Enășcuță C., Tuluc A., Stepan E., Plesu V., Bozga G., 2017. Vapor pressure measurements for ethyl myristate, U.P.B. Sci. Bull., Series B, 79, Iss. 2.
2. Stepan E., Enascuta C., Oprescu E., Radu E., Radu A., Galan A-M., Vasilevici G., Lavric V., Velea S., 2016. "Intermediates for synthetic paraffinic kerosene from microalgae", *Fuel*, 172, 29-36, I.F. = 3,61
3. Stepan E., Velea S., Tanase C., Radu A., Enascuta C., Oprescu E., 2012, „Biodiesel and Surfactants from Fats”, *Revista de Chimie*,63(6), 646-650, (ISSN 0034-7752), I.F.= 0.677
4. Oprescu E., Stepan E., Rosca P., Radu A., Enascuta C., 2012, „Synthesis of Glycerol Carbonate over Hydrotalcite Catalyst”, *Revista de Chimie*,63(6),621-625 (ISSN 0034-7752), I.F.= 0.677
5. Oprescu E., Stepan E., Rosca P., Radu A., Enascuta C., 2012, “Green synthesis of cyclohexanone glycerol ketal catalyzed by a solid superacid”, *Analele Universitatii "Ovidius" Constanta-Seria Chimie*, 23 (1), 72-76, (ISSN 1223-7221)
6. Stepan E., Neamtu C., Enascuta C., Ordeanu V., Neculescu M., Andries A., Irimia A., 2008, “N,N,N',N'-tetraacetylenediamine (TAED) as an Activator for Persalts, in Modern Compositions of Detergents and Disinfectants”, *Revista de Chimie* 59(5), 558,(ISSN 0034-7752), I.F.= 0.677
7. Stepan E., Velea S., Enascuta C., Marton G., Gijiu C., 2006, “Kinetics of Transesterification Reaction of the Sunflower Oil”, *Revista de Chimie* 57(7), 693,(ISSN 0034-7752), I.F.= 0.677

2. Patents

1. Enascuta C., Stepan E., E., Plesu, V., Stefan, N. G., 2017, “Process for obtaining an oil with high content of polyunsaturated fatty acids and a diesel biofuel”, **RO Patent 129,836**
2. Stepan Emil, Oprescu, E. E. Radu, A., Enășcuță C. E., 2017, “Process for obtaining acetals and ketals of glycerol”, **RO Patent 128,997**
3. Stepan, E., Velea, S., Enășcuță, C., Radu, A., Oprescu, E., Tudor, A., 2012, “Process for obtaining sulfurized fatty acid methyl esters, from fats”, **RO Patent 127,647**
4. Stepan E., Velea S., Tanase C., Radu A., Enășcuță, C., Oprescu E, 2012, "Process for obtaining a diesel biofuel and tensides from fatty material", **RO Patent 126,669** [INVENTIKA-International Exhibition of Inventions, Scientific Research and New Technologies, Bucharest, October 6-9, 2010, *Gold Medal*

3. Patent Applications

1. Stepan E., Velea S., Enășcuță C., Radu E., Gaidău C., Niculescu M., Gadea M., Epure D., Becheritu M., „Compozitie pentru cresterea productiei de seminte de rapita si procedeu pentru obtinerea acesteia”, RO Patent Application nr. **a2016 00624 din 09.09.2016**
2. Stepan E., Velea S., Vasilevici G., Radu E., Radu A., Oprescu E., Enășcuță C., „Diesel biofuel based on furfurylidene glycerol derivatives and process for producing the same”, RO Patent application no. **a2015 00753/22.10.2015**
3. Stepan E., Vasilevici G., Velea S., Bombos M., Enășcuță, C., Oprescu E., Radu E., Radu A., „*Biofuel for aircraft turbine and process for obtaining it*”, RO Patent application no. **a 2015 -0803/09.11.2015** [Proinvent, Cluj, 2016, *Gold Medal*]

4. International congresses and conferences

1. M Gidea, E.Stepan, E.C Enascuta, C Gaidau, M.D. Niculescu, D.G. Epure, C. Cioineag, E.B. Sandulescu, L.I. Epure “Researches on the biostimulating and antidehiscent effect of products based on fish collagen crosslinked to rape crop”, „European Biotechnology Congress 2017”, 24-28 mai 2017, Dubrovnik, Croatia
2. Galan A-M., Velea S., Enascuta C., “Biogas upgrading using an integrated closed system” a 6-a Conferinta Internationala “Ecological and Environmental Chemistry – 2017”
3. E. Stepan, S. Velea, E. Radu, C. Enascuta, G. Vasilevici, E. Oprescu, A. Radu, „New oxygenated fuel additives obtained by reactive distillation” International Conference „Prioritățile Chimiei pentru o Dezvoltare Durabilă – PRIOCHEM”- 12th Edition, Bucharest 27-28.10.2016
4. C. Enascuta, E. Oprescu, E. Stepan, E. Radu, A. Radu, A. Galan “Omega-3 fatty acids esters from fish wastes”, International Conference “Prioritățile Chimiei pentru o Dezvoltare Durabilă – PRIOCHEM”- 12th Edition, Bucharest 27-28.10.2016

5. S. Velea, R. Ganea, G. Vasilevici, R. Fierascu, M. Bombos, C. Enascuta "Synthesis and characterization of silica ordered mesoporous materials" International Conference "Prioritățile Chimiei pentru o Dezvoltare Durabilă – PRIOCHEM"- 12th Edition, Bucharest 27-28.10.2016
6. E. Stepan, S. Velea, O. Blajan, C. Enascuta, G. Vasilevici, E. Oprescu, E. Radu, A. Radu, „Innovative microalgae research for obtaining aviation turbine biofuel”, International Conference „EUROPEAN NETWORKS CONFERENCE ON ALGAL AND PLANT PHOTOSYNTHESIS”, Qawra, Malta, 25-29.04.2016
7. Stepan E., Velea S., Radu E., Enascuta C., Oprescu E., Radu A., Gaidau C., Epure D., Gidea M. "Microencapsulation of biopesticides based on essential oils", 6th International Congress on Medicinal and Aromatic Plants - CIPAM 2016
8. E. Stepan, G. Vasilevici, S. Velea, M. Bombos, C. Enăscuță, E. Oprescu, E. Radu, A. Radu "Biocarburant pentru avioane cu turbină și procedeu de obținere a acestuia", Salonul Internațional al Cercetării, Inovării și Inventicii PRO INVENT, Cluj-Napoca, Editia a XIV-a, 23-25 martie 2016
9. E. Stepan, S. Velea, G. Vasilevici, E. Radu, A. Radu, E. Oprescu, C. Enăscuță "Biocarburant diesel pe bază de derivați ai furfuralidenei glicerolului și procedeu pentru obținerea acestuia", Salonul Internațional al Cercetării, Inovării și Inventicii PRO INVENT, Cluj-Napoca, Editia a XIV-a, 23-25 martie 2016
10. Enăscuță C., Stepan E., Radu A., Lavric V., "Separation of omega-3 fatty acid esters by molecular distillation use of artificial neural network as modeling tool", International Conference "Chemistry for a Sustainable Development – PRIOCHEM", 11th Edition, ICECHIM, Bucharest, October 30th 2015
11. Stepan E., Velea S., Enascuta C., Oprescu E., Vasilevici G., Radu E., Radu A. „Process for obtaining fatty acid methyl esters from microalgae oil”, – PRIOCHEM”, 11th Edition, ICECHIM, Bucharest, October 30th 2015
12. Enăscuță C., Stepan E., Radu A., "Fish wastes – a cheap renewable source of high polyunsaturated fatty acid esters" 19th Romanian International Conference on Chemistry and Chemical Engineering, RICCCCE19, Sibiu, September, 2015
13. Stefan N. G., Enăscuță C., Stepan E., Tuluc A., Plesu V., Bonet-Ruiz J., Iancu P., "High vacuum distillation for ω -3 fatty acids esters separation", 18th Romanian International Conference on Chemistry and Chemical Engineering, RICCCCE18, Sinaia, September, 2013
14. Stefan N., Enăscuță C., Stepan E., Tuluc A., Plesu V., Bonet-Ruiz J., Iancu P., "High vacuum distillation for omega-3 fatty acids esters separation", International Conference "Chemistry for a Sustainable Development – PRIOCHEM", 9th Edition, Chemical Engineering Section, ICECHIM, Bucharest, October 29th 2013.
15. Oprescu E., Stepan E., Roșca P., Radu A., Enăscuță C., Glycerol compound used as a green component for diesel fuel, 4th EuCheMS Chemistry Congress, 26-30 August 2012, Praga, Cehia.
16. Pleșu V., Stepan E., Enăscuță C., Iancu P., Bonet-Ruiz J., Modelling and experiments for separation of omega fatty acids esters. PRES 2012 International Conference, Praga, Cehia.
17. Plesu V., Iavorschi G., Tuluc A., Enăscuță C., Neamtu C., Petre R., Bonet-Ruiz A.E., „Advanced experimental devices for sustainable process development”, PRES 2012 International Conference., Praga, Cehia.
18. Marton G., Soriga S., Plesu V., Bonet-Ruiz J., Tuluc A., Enăscuță C., „Using molecular modeling for sustainable bio-fuel production”, PRES 2012 International Conference, Praga, Cehia.
19. Plesu V., Bonet-Ruiz J., Bumbac G., Enăscuță C., Tuluc A., „Modeling and simulation for sustainable biodiesel production”, PRES 2012 International Conference, Praga, Cehia.
20. Oprescu E., Stepan E., Roșca P., Radu A., Enăscuță C., Green synthesis of cyclohexanone glycerol ketal catalyzed by a solid superacid, Conferința Internațională - "CHIMIA 2012- New trends in applied chemistry", ediția a V-a, Universitatea Ovidiu, Constanța, May, 2012.
21. Enăscuță C., Stepan E., Plesu V., Marton G., Molecular modeling for separation of fatty acids esters. International Conference – PRIOCHEM, 8th Edition, Bucharest, Octomber 2012.
22. Oprescu E, Stepan E., Roșca P., Radu A., Radu E., Enăscuță C., Synthesis of diesel additive/component from glycerol condensation with methyl ethyl ketone, International Conference - PRIOCHEM, 8th Edition, Bucharest, Octomber 2012.
23. Stepan E., Velea S., Ilie L., Oprescu E., Radu A., Enascuta C., "Aviation biofuel from microalgal biomass", International Conference - PRIOCHEM, ", 8th Edition, Bucharest, October 2012.

5. National conferences

1. E. Stepan, S. Velea, E. Radu, G. Vasilevici, E. Oprescu, C. Enascuta, A. Radu, „New oxygenated fuel additives based on furfurylidene glycerol derivatives”, a XXXIV-a Conferința Nationala de Chimie, Calimanesti–Caciulata, Vâlcea, România, 04 – 07 oct. 2016
2. E. Oprescu, S. Velea, A. Galan, E. Stepan, E. Radu, G. Vasilevici, C. Enascuta, A. Radu, „Enzymatic ecosolvent synthesis”, a XXXIV-a Conferința Nationala de Chimie, Calimanesti–Caciulata, Vâlcea, România, 04 – 07 oct. 2016
3. E. Radu, S. Velea, A. Galan, R. Frîncu, C. Matei, G. Vasilevici, C. Enăscuță, „Anaerobic co-digestion of different types of food waste and spent microalgae biomass”, a XXXIV-a Conferința Nationala de Chimie, Calimanesti–Caciulata, Vâlcea, România, 04 – 07 oct. 2016
4. C. Enascuta, E. Stepan, M. Gidea, M. Becheritu, M. Niculescu "Films based on cross-linked collagen hydrolysates, with anti-dehiscent effect for rapeseed culture" a XXXIV-a Conferința Nationala de Chimie, Calimanesti–Caciulata, Vâlcea, România, 04 – 07 oct. 2016

Date:

drd. ing. Enăscuță Cristina Emanuela

30.06.2017

